

**Flood Control Project Maintenance
Levee Inspections
LMA District Cover Sheet
Spring 2010 Levee Inspection Results**

Reclamation District No. 0524 Middle Roberts Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2010 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.26
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/30/2010 - 4/5/2010			
DWR Inspector	Richard Willoughby			
Accompanied By	Mario Jaques RD 524			

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	6.26	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.941067 ° -121.345963 °	37.870458 ° -121.329888 °	61
2	0.01	6.26	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.941065 ° -121.345962 °	37.870460 ° -121.329888 °	67
3	0.22	0.22	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.938890 ° -121.343657 °	37.938890 ° -121.343657 °	3
4	0.36	0.36	Earthen Levee	Encroachments	LS	M	Garbage	37.938338 ° -121.341290 °	37.938338 ° -121.341290 °	15 Y
5	0.38	0.39	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.938527 ° -121.340887 °	37.938553 ° -121.340778 °	4 Y
6	0.39	0.43	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.938555 ° -121.340870 °	37.938642 ° -121.339990 °	5
7	0.48	0.49	Earthen Levee	Erosion / Bank Caving	WS	U	Schedule repair of erosion site prior to the next inspection.	37.938693 ° -121.339063 °	37.938693 ° -121.338993 °	6 Y
8	0.51	0.52	Earthen Levee	Erosion / Bank Caving	WS	U	Schedule repair of erosion site prior to the next inspection.	37.938682 ° -121.338518 °	37.938657 ° -121.338425 °	7 Y
9	0.53	0.60	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: erosion site extends from RM 41.11 to 41.18; existing revetment is no longer adequately protecting the oversteepened slope [2009 SiteID:RD0524U1RM41.15]	37.938895 ° -121.337602 °	37.938895 ° -121.337602 °	1 Y
10	0.63	0.63	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	37.938247 ° -121.336503 °	37.938247 ° -121.336503 °	10
11	0.63	0.64	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	37.938247 ° -121.336503 °	37.938197 ° -121.336405 °	11 Y
12	0.64	0.64	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.938198 ° -121.336407 °	37.938198 ° -121.336407 °	12 Y
13	0.65	0.66	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	37.938105 ° -121.336288 °	37.938023 ° -121.336173 °	13 Y
14	0.68	0.68	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	37.937808 ° -121.335913 °	37.937808 ° -121.335913 °	14 Y
15	0.79	0.79	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.936444 ° -121.334797 °	37.936444 ° -121.334797 °	76
16	0.81	0.81	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.936217 ° -121.334698 °	37.936217 ° -121.334698 °	16

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River						Left	6.26	03/30/2010 04/05/2010	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
17	0.94	1.02	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.935259 ° -121.332864 °	37.935049 ° -121.331334 °	77 Y
18	1.01	1.03	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.935098 ° -121.331645 °	37.935018 ° -121.331248 °	17 Y
19	1.09	1.09	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.934645 ° -121.330310 °	37.934645 ° -121.330310 °	18 Y
20	1.14	1.17	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.934118 ° -121.329657 °	37.933775 ° -121.329305 °	19 Y
21	1.16	1.24	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: Site consists of an approximately 400 ft. eroding bank with minimal protection; the existing rip rap is sloughing; note there is an exposed section of a pipe [2009 SiteID:RD0524U1RM41.79]	37.933470 ° -121.329110 °	37.933470 ° -121.329110 °	2 Y
22	1.17	1.25	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.933775 ° -121.329250 °	37.932784 ° -121.328765 °	915 Y
23	1.25	1.25	Earthen Levee	Encroachments	LS	M	Garbage	37.932665 ° -121.328808 °	37.932665 ° -121.328808 °	20 Y
24	1.32	1.33	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection.	37.931858 ° -121.328308 °	37.931692 ° -121.328282 °	21 Y
25	1.41	1.42	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.930575 ° -121.328098 °	37.930420 ° -121.328245 °	22 Y
26	1.51	1.51	Earthen Levee	Trim / Thin Trees	LS	U	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.929118 ° -121.328368 °	37.929118 ° -121.328368 °	916 Y
27	1.56	1.74	Earthen Levee	Encroachments	LS	CO	Landscaping	37.928352 ° -121.328307 °	37.926497 ° -121.326248 °	23 Y
28	1.58	1.64	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: The lower slope is lined with some erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank [2009 SiteID:RD0524U1RM42.2]	37.927770 ° -121.327870 °	37.927770 ° -121.327870 °	79 Y
29	1.62	1.66	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage.	37.927658 ° -121.327865 °	37.927255 ° -121.327164 °	24 Y
30	1.62	1.63	Earthen Levee	Vegetation	WS	U	Remove the wild growth other than native grasses from the levee slopes.	37.927635 ° -121.327812 °	37.927540 ° -121.327648 °	25 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.26	03/30/2010 04/05/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
31	1.63	1.66	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.927507 ° -121.327593 °	37.927295 ° -121.327298 °	26
32	1.66	1.70	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps. Inspector Comments: Several tree stumps on waterside shoulder.	37.927255 ° -121.327137 °	37.926855 ° -121.326672 °	8
33	1.71	1.73	Earthen Levee	Slope Stability	WS	M	Repair slope instability.	37.926728 ° -121.326597 °	37.926730 ° -121.326508 °	27
34	1.75	1.75	Earthen Levee	Encroachments	LS	U	Garbage	37.926322 ° -121.326115 °	37.926322 ° -121.326115 °	28 Y
35	1.90	1.95	Earthen Levee	Encroachments	LS	PO	Landscaping	37.924364 ° -121.324473 °	37.923805 ° -121.324238 °	78
36	1.96	1.98	Earthen Levee	Trim / Thin Trees	LS	C	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.923685 ° -121.324235 °	37.923493 ° -121.324167 °	29
37	2.17	2.18	Earthen Levee	Erosion / Bank Caving	WS	W	Note and monitor erosion site.	37.921383 ° -121.322043 °	37.921300 ° -121.321902 °	30
38	2.22	2.28	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.920992 ° -121.321373 °	37.920505 ° -121.320485 °	31
39	2.29	2.31	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.920372 ° -121.320230 °	37.920273 ° -121.320022 °	32 Y
40	2.32	2.35	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.920075 ° -121.319778 °	37.919702 ° -121.319700 °	33
41	2.34	2.35	Earthen Levee	Erosion / Bank Caving	WS	W	Note and monitor erosion site.	37.919885 ° -121.319713 °	37.919703 ° -121.319702 °	34
42	2.46	2.50	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.918628 ° -121.320817 °	37.918438 ° -121.321452 °	36
43	2.47	2.48	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.918575 ° -121.320980 °	37.918515 ° -121.321110 °	35
44	2.48	2.52	Earthen Levee	Encroachments	WS	C	Garbage	37.918504 ° -121.321085 °	37.918300 ° -121.321790 °	81
45	2.48	2.48	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.918480 ° -121.321114 °	37.918480 ° -121.321114 °	80
46	2.52	2.52	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.918345 ° -121.321765 °	37.918302 ° -121.321923 °	37 Y
47	2.53	2.53	Earthen Levee	Vegetation	WS	U	Elderberries are blocking visibility and flood fight capability.	37.918287 ° -121.321980 °	37.918287 ° -121.321980 °	38 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River						Left	6.26	03/30/2010 04/05/2010	Richard Willoughby	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
48	2.54	2.54	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.918242 ° -121.322125 °	37.918187 ° -121.322247 °	39
49	2.55	2.59	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.918060 ° -121.322384 °	37.917667 ° -121.322713 °	82
50	2.56	2.56	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.918047 ° -121.322415 °	37.918047 ° -121.322415 °	40
51	2.59	2.59	Earthen Levee	Encroachments	LS	M	Garbage	37.917673 ° -121.322718 °	37.917673 ° -121.322718 °	41 Y
52	2.59	2.60	Earthen Levee	Encroachments	LS	CO	Buildings	37.917673 ° -121.322723 °	37.917555 ° -121.322778 °	42
53	2.60	2.60	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.917475 ° -121.322808 °	37.917475 ° -121.322808 °	917
54	2.61	2.65	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.917222 ° -121.322652 °	37.916903 ° -121.322167 °	9
55	2.66	2.66	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.916780 ° -121.322095 °	37.916780 ° -121.322095 °	43 Y
56	2.67	2.69	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.916718 ° -121.322020 °	37.916502 ° -121.321980 °	918
57	2.67	2.67	Earthen Levee	Encroachments	WS	PO	Ramp	37.916698 ° -121.322007 °	37.916698 ° -121.322007 °	920
58	2.67	2.67	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection.	37.916650 ° -121.321987 °	37.916650 ° -121.321987 °	919
59	2.71	2.73	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.916180 ° -121.322165 °	37.915947 ° -121.322357 °	44
60	2.74	2.83	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.915813 ° -121.322485 °	37.914963 ° -121.323605 °	45
61	2.77	2.77	Earthen Levee	Encroachments	LS	M	Tree or limb Inspector Comments: Broken tree branch.	37.915503 ° -121.322745 °	37.915503 ° -121.322745 °	70
62	2.78	2.79	Earthen Levee	Encroachments	LS	C	Landscaping	37.915285 ° -121.322813 °	37.915175 ° -121.322983 °	46
63	2.79	2.81	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.915173 ° -121.322982 °	37.915098 ° -121.323183 °	47 Y
64	2.81	2.81	Earthen Levee	Encroachments	WS	M	Prunings	37.915125 ° -121.323227 °	37.915125 ° -121.323227 °	921
65	2.82	2.82	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.915022 ° -121.323443 °	37.915022 ° -121.323443 °	48 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.26	03/30/2010 04/05/2010	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
66	2.83	2.83	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.915063 ° -121.323585 °	37.915063 ° -121.323585 °	91
67	2.88	2.88	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.914427 ° -121.324198 °	37.914427 ° -121.324198 °	49
68	2.93	2.95	Earthen Levee	Encroachments	LS	M	Prunings	37.913767 ° -121.324427 °	37.913503 ° -121.324488 °	50
69	2.96	2.96	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.913415 ° -121.324503 °	37.913415 ° -121.324503 °	51
70	2.97	2.97	Interior Drainage & Piping Systems	Erosion Areas	WS	M	Inspector Comments: Due to erosion on the bank at LM 2.98 is causing erosion around the outlet of the pipe.	37.913152 ° -121.324493 °	37.913152 ° -121.324493 °	922
71	3.04	3.04	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.912163 ° -121.324702 °	37.912163 ° -121.324702 °	924
72	3.10	3.12	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.911382 ° -121.324928 °	37.911088 ° -121.325113 °	925
73	3.33	3.35	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.908158 ° -121.325418 °	37.907872 ° -121.325443 °	926
74	3.37	3.40	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.907645 ° -121.325442 °	37.907157 ° -121.325408 °	52
75	3.38	3.39	Earthen Levee	Encroachments	LS	PO	Landscaping	37.907407 ° -121.325435 °	37.907177 ° -121.325392 °	92
76	3.39	3.45	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.907283 ° -121.325432 °	37.906503 ° -121.325002 °	53
77	3.43	3.49	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.906747 ° -121.325248 °	37.906192 ° -121.324543 °	54
78	3.45	3.45	Earthen Levee	Encroachments	LS	M	Material Inspector Comments: Broken concrete pipes	37.906540 ° -121.325015 °	37.906540 ° -121.325015 °	56
79	3.45	3.45	Earthen Levee	Encroachments	LS	M	Garbage	37.906503 ° -121.325002 °	37.906503 ° -121.325002 °	55
80	3.47	3.47	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.906265 ° -121.324643 °	37.906265 ° -121.324643 °	93
81	3.54	3.64	Earthen Levee	Trim / Thin Trees	LS	M	Trim and thin trees to allow visibility of the ground and room to flood fight.	37.905638 ° -121.323892 °	37.904430 ° -121.324570 °	57
82	3.68	3.68	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	37.904113 ° -121.325080 °	37.904113 ° -121.325080 °	58 Y

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
83	3.80	3.80	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.902645 ° -121.326340 °	37.902645 ° -121.326340 °	927
84	3.82	3.82	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.902417 ° -121.326482 °	37.902417 ° -121.326482 °	59
85	3.84	3.85	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.902155 ° -121.326523 °	37.902002 ° -121.326550 °	928
86	3.88	4.02	Earthen Levee	Encroachments	WS	C	Prunings	37.901582 ° -121.326547 °	37.899602 ° -121.326685 °	60
87	3.89	4.01	Earthen Levee	Encroachments	LS	M	Equipment	37.901375 ° -121.326507 °	37.899745 ° -121.326630 °	62 Y
88	3.91	3.91	Earthen Levee	Encroachments	WS	C	Garbage	37.901170 ° -121.326482 °	37.901170 ° -121.326482 °	929
89	3.92	3.92	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove cactus	37.900952 ° -121.326443 °	37.900952 ° -121.326443 °	94
90	3.93	3.93	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.900854 ° -121.326438 °	37.900854 ° -121.326438 °	83
91	4.05	4.05	Earthen Levee	Encroachments	LS	C	Garbage	37.899127 ° -121.326938 °	37.899127 ° -121.326938 °	63
92	4.08	4.13	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.898832 ° -121.327092 °	37.898090 ° -121.327457 °	64
93	4.40	4.56	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.894587 ° -121.329253 °	37.892493 ° -121.328267 °	65
94	4.58	4.58	Earthen Levee	Encroachments	LS	M	Tree or limb Inspector Comments: Down tree laying on landside toe.	37.892212 ° -121.328197 °	37.892212 ° -121.328197 °	95
95	4.64	4.64	Earthen Levee	Encroachments	LS	M	Garbage	37.891365 ° -121.328633 °	37.891365 ° -121.328633 °	66 Y
96	4.98	4.98	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.887277 ° -121.331609 °	37.887277 ° -121.331609 °	84
97	5.24	5.24	Earthen Levee	Encroachments	LS	C	Prunings	37.883657 ° -121.332132 °	37.883657 ° -121.332132 °	68
98	5.33	5.35	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.882377 ° -121.332598 °	37.882076 ° -121.332676 °	85
99	5.46	5.46	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.880575 ° -121.332890 °	37.880575 ° -121.332890 °	931

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
100	5.49	5.49	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.880055 ° -121.333048 °	37.880055 ° -121.333048 °	932
101	5.57	5.57	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	37.878918 ° -121.333148 °	37.878918 ° -121.333148 °	96
102	5.65	5.66	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: no major change observed; upper portion of the existing revetment has slipped, exposing the degraded bank; note the site # is same as RM 46.3, LM5.69 found in the CLRO CES Evaluation 2008 Report; site was previously rated "M" [2009 SiteID:RD0524U1RM46.12]	37.877880 ° -121.332550 °	37.877880 ° -121.332550 °	90 Y
103	5.86	5.86	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.875073 ° -121.333168 °	37.875073 ° -121.333168 °	69
104	5.87	5.87	Earthen Levee	Encroachments	CR	C	Pipe	37.875002 ° -121.333222 °	37.875002 ° -121.333222 °	71
105	5.87	5.87	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Regrade the crown roadway for proper drainage.	37.874983 ° -121.333225 °	37.874983 ° -121.333225 °	72
106	5.92	5.94	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.874240 ° -121.333187 °	37.874002 ° -121.333027 °	75
107	5.92	5.92	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.874240 ° -121.333185 °	37.874165 ° -121.333155 °	74 Y
108	5.92	5.92	Earthen Levee	Encroachments	CR	C	Pipe	37.874240 ° -121.333180 °	37.874240 ° -121.333180 °	73
109	5.97	5.97	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.873678 ° -121.332550 °	37.873678 ° -121.332550 °	86
110	5.99	6.00	Earthen Levee	Encroachments	LS	PO	Fences	37.873545 ° -121.332308 °	37.873445 ° -121.332127 °	87
111	5.99	6.00	Earthen Levee	Encroachments	LS	PO	Landscaping	37.873543 ° -121.332308 °	37.873445 ° -121.332127 °	88
112	6.01	6.05	Earthen Levee	Encroachments	LS	CO	Buildings	37.873377 ° -121.331977 °	37.873102 ° -121.331382 °	89 Y
113	6.05	6.05	Earthen Levee	Erosion / Bank Caving	WS	M	Schedule repair of erosion site prior to the next inspection.	37.873047 ° -121.331408 °	37.873047 ° -121.331408 °	933

*** Location**

LS : Land Side
WS : Water Side
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**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.36
End Levee Mile	0.36
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Garbage pile at landward toe at LM 0.36

richard_s_20100316_048.jpg



Levee Mile Report Line	5
Start Levee Mile	0.38
End Levee Mile	0.39
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Minor erosion from LM 0.38 to 0.39

richard_s_20100316_038.jpg



Levee Mile Report Line	7
Start Levee Mile	0.48
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Major erosion from LM 0.48 to 0.49

richard_s_20100316_039.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	0.48
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Update of erosion site at LM 0.48 to 0.49

richard_s_20100316_040.jpg



Levee Mile Report Line	7
Start Levee Mile	0.48
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southeast at erosion (no change as 4/2010)

richard_s_20100408_205.jpg



Levee Mile Report Line	7
Start Levee Mile	0.48
End Levee Mile	0.49
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at erosion from the top of the levee (no change as of 4/2010)

richard_s_20100408_206.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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CO : Completely Obstructing
N : Not Inspected

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	0.51
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion from LM 0.51 to 0.52

richard_s_20100316_041.jpg



Levee Mile Report Line	8
Start Levee Mile	0.51
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Update of erosion site at LM 0.51 to 0.52

richard_s_20100316_042.jpg



Levee Mile Report Line	8
Start Levee Mile	0.51
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southeast at erosion on waterside slope ,
no change as of 4/2010)

richard_s_20100408_207.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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CO : Completely Obstructing
N : Not Inspected

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	0.51
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at erosion from the top of the levee. No change as of 4/2010

richard_s_20100408_208.jpg



Levee Mile Report Line	9
Start Levee Mile	0.53
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: erosion site extends from RM 41.11 to 41.18; existing revetment is no longer adequately protecting the oversteepened slope [2009 SiteID:RD0524U1RM41.15]

SJR2009_RM41.11 092909B.JPG



Levee Mile Report Line	9
Start Levee Mile	0.53
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: erosion site extends from RM 41.11 to 41.18; existing revetment is no longer adequately protecting the oversteepened slope [2009 SiteID:RD0524U1RM41.15]

SJR2009_RM41.11 092909F.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected
C : Corrected
W : Watch/Monitor

Tuesday, July 06, 2010 15:51

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	0.53
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
2009: erosion site extends from RM 41.11 to 41.18; existing revetment is no longer adequately protecting the oversteepened slope [2009 SiteID:RD0524U1RM41.15]	
SJR2009_RM41.18 092909B.JPG	



Levee Mile Report Line	9
Start Levee Mile	0.53
End Levee Mile	0.60
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
2009: erosion site extends from RM 41.11 to 41.18; existing revetment is no longer adequately protecting the oversteepened slope [2009 SiteID:RD0524U1RM41.15]	
SJR2009_RM41.18 092909C.JPG	



Levee Mile Report Line	11
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking north at bamboo on waterside slope.	
richard_s_20100316_043.jpg	

*** Location**

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	0.63
End Levee Mile	0.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at bamboo on waterside slope as of 4/2010 no change.

richard_s_20100408_209.jpg



Levee Mile Report Line	12
Start Levee Mile	0.64
End Levee Mile	0.64
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Large hole 3 x 3 on levee crown near waterside shoulder at LM 0.64

richard_s_20100316_044.jpg



Levee Mile Report Line	13
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Erosion from LM 0.65 to 0.66

richard_s_20100316_045.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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Tuesday, July 06, 2010 15:51

FINAL DATA

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Update of erosion site at LM 0.65 to 0.66

richard_s_20100316_046.jpg



Levee Mile Report Line	13
Start Levee Mile	0.65
End Levee Mile	0.66
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking south at erosion on waterside shoulder.

richard_s_20100408_210.jpg



Levee Mile Report Line	14
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Bamboo on waterward slope at LM 0.68

richard_s_20100316_047.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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CO : Completely Obstructing
N : Not Inspected

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	0.68
End Levee Mile	0.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at bamboo on waterside shoulder as of 4/2010.

richard_s_20100408_211.jpg



Levee Mile Report Line	18
Start Levee Mile	1.01
End Levee Mile	1.03
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking upstream (south) at erosion site.

richard_s_20100316_049.jpg



Levee Mile Report Line	19
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Landward slope damage at LM 1.09

richard_s_20100316_050.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	19
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Updated picture of erosion site on landside shoulder.

richard_s_20100316_051.jpg



Levee Mile Report Line	19
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Update of above slope stability.

richard_s_20100408_212.jpg



Levee Mile Report Line	19
Start Levee Mile	1.09
End Levee Mile	1.09
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking at updated slope stability as 4/2010

richard_s_20100408_213.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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CO : Completely Obstructing
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: Site consists of an approximately 400 ft. eroding bank with minimal protection; the existing rip rap is sloughing; note there is an exposed section of a pipe [2009 SiteID:RD0524U1RM41.79]</p> <p>SJR2009_RM41.79 092909A.JPG</p>	



Levee Mile Report Line	21
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: Site consists of an approximately 400 ft. eroding bank with minimal protection; the existing rip rap is sloughing; note there is an exposed section of a pipe [2009 SiteID:RD0524U1RM41.79]</p> <p>SJR2009_S18 LM1.20 110408a.jpg</p>	



Levee Mile Report Line	21
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
<p>2009: Site consists of an approximately 400 ft. eroding bank with minimal protection; the existing rip rap is sloughing; note there is an exposed section of a pipe [2009 SiteID:RD0524U1RM41.79]</p> <p>SJR2009_S18 LM1.20 110408b.jpg</p>	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	1.16
End Levee Mile	1.24
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: Site consists of an approximately 400 ft. eroding bank with minimal protection; the existing rip rap is sloughing; note there is an exposed section of a pipe [2009
SiteID:RD0524U1RM41.79]

SJR2009_S18 LM1.20 110408d.jpg



Levee Mile Report Line	22
Start Levee Mile	1.17
End Levee Mile	1.25
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at dense veg. on landside toe.

richard_s_20100408_214.jpg



Levee Mile Report Line	23
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Concrete rubble with rebar on landward shoulder at LM 1.25

richard_s_20100316_052.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	1.25
End Levee Mile	1.25
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at concrete rubble on landside slope.

richard_s_20100408_215.jpg



Levee Mile Report Line	24
Start Levee Mile	1.32
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion from LM 1.32 to 1.33

richard_s_20100316_053.jpg



Levee Mile Report Line	24
Start Levee Mile	1.32
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at erosion from top of levee

richard_s_20100316_054.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
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N : Not Inspected

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	24
Start Levee Mile	1.32
End Levee Mile	1.33
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at update of erosion site at LM 1.32 to 1.33

richard_s_20100316_055.jpg



Levee Mile Report Line	26
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Dense vegetation on landside toe.

richard_s_20100316_069.jpg



Levee Mile Report Line	26
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at dense veg. on landside slope and toe.

richard_s_20100408_216.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	27
Start Levee Mile	1.56
End Levee Mile	1.74
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Overgrown landscaping on landward slope from LM 1.56 to 1.74	
richard_s_20100316_056.jpg	



Levee Mile Report Line	28
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
2009: The lower slope is lined with some erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank [2009 SiteID:RD0524U1RM42.2]	
SJR2009_S21 LM1.61 110408a.jpg	



Levee Mile Report Line	28
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
2009: The lower slope is lined with some erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank [2009 SiteID:RD0524U1RM42.2]	
SJR2009_S21 LM1.61 110408b.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	28
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: The lower slope is lined with some erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank [2009 SiteID:RD0524U1RM42.2]

SJR2009_S21 LM1.61 110408c.jpg



Levee Mile Report Line	28
Start Levee Mile	1.58
End Levee Mile	1.64
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: The lower slope is lined with some erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank [2009 SiteID:RD0524U1RM42.2]

SJR2009_RM42.20U1 092909K.JPG



Levee Mile Report Line	30
Start Levee Mile	1.62
End Levee Mile	1.63
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at dense veg. on waterside slope.

richard_s_20100408_217.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	34
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Garbage on landward toe from LM 1.75 to 1.76

richard_s_20100316_057.jpg



Levee Mile Report Line	34
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking at updated trash pile on landside slope and toe.

richard_s_20100316_058.jpg



Levee Mile Report Line	34
Start Levee Mile	1.75
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at prunings on landside toe.

richard_s_20100408_218.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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N : Not Inspected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	39
Start Levee Mile	2.29
End Levee Mile	2.31
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense veg on landside slope and toe.

richard_s_20100408_219.jpg



Levee Mile Report Line	46
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on landside slope.

jhirabay_s_20100625_225.jpg



Levee Mile Report Line	46
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at trees along levee landside toe.

jhirabay_s_20100625_226.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
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N : Not Inspected
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	46
Start Levee Mile	2.52
End Levee Mile	2.52
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at elderberry and trees on landside slope.

jhirabay_s_20100625_229.jpg



Levee Mile Report Line	47
Start Levee Mile	2.53
End Levee Mile	2.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on waterside slope.

jhirabay_s_20100625_227.jpg



Levee Mile Report Line	47
Start Levee Mile	2.53
End Levee Mile	2.53
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at elderberry on waterside slope.

jhirabay_s_20100625_228.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	51
Start Levee Mile	2.59
End Levee Mile	2.59
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at elderberrys on landside slope.

richard_s_20100408_220.jpg



Levee Mile Report Line	55
Start Levee Mile	2.66
End Levee Mile	2.66
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at structures on landside.

richard_s_20100408_221.jpg



Levee Mile Report Line	63
Start Levee Mile	2.79
End Levee Mile	2.81
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking southwest at elderberry on landside slope.

richard_s_20100408_222.jpg



*** Location**

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WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	65
Start Levee Mile	2.82
End Levee Mile	2.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on landside slope.

richard_s_20100408_224.jpg



Levee Mile Report Line	82
Start Levee Mile	3.68
End Levee Mile	3.68
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking south at slope stability on landside shoulder.

richard_s_20100408_223.jpg



Levee Mile Report Line	87
Start Levee Mile	3.89
End Levee Mile	4.01
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking upstream at equipment on landside shoulder

richard_s_20100316_061.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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N : Not Inspected
C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	95
Start Levee Mile	4.64
End Levee Mile	4.64
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Garbage at landward toe next to ramp at LM 4.64

richard_s_20100316_063.jpg



Levee Mile Report Line	102
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: no major change observed; upper portion of the existing revetment has slipped, exposing the degraded bank; note the site # is same as RM 46.3, LM5.69 found in the CLRO CES Evaluation 2008 Report; ste was previously rated "M" [2009 SiteID:RD0524U1RM46.12]

SJR2009_S48.5 LM5.65 110408a.jpg



Levee Mile Report Line	102
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: no major change observed; upper portion of the existing revetment has slipped, exposing the degraded bank; note the site # is same as RM 46.3, LM5.69 found in the CLRO CES Evaluation 2008 Report; ste was previously rated "M" [2009 SiteID:RD0524U1RM46.12]

SJR2009_S48.5 LM5.65 110408b.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	102
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: no major change observed; upper portion of the existing revetment has slipped, exposing the degraded bank; note the site # is same as RM 46.3, LM5.69 found in the CLRO CES Evaluation 2008 Report; ste was previously rated "M" [2009 SiteID:RD0524U1RM46.12]

SJR2009_RM46.12U1 092909C.JPG



Levee Mile Report Line	102
Start Levee Mile	5.65
End Levee Mile	5.66
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

2009: no major change observed; upper portion of the existing revetment has slipped, exposing the degraded bank; note the site # is same as RM 46.3, LM5.69 found in the CLRO CES Evaluation 2008 Report; ste was previously rated "M" [2009 SiteID:RD0524U1RM46.12]

SJR2009_RM46.12U1 092909D.JPG



Levee Mile Report Line	107
Start Levee Mile	5.92
End Levee Mile	5.92
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Erosion at waterward toe at LM 5.92

richard_s_20100316_067.jpg



*** Location**

LS : Land Side
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N : Not Inspected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2010

Reclamation District No. 0524 Middle Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.26	03/30/2010 04/05/2010	Richard Willoughby

Levee Mile Report Line	112
Start Levee Mile	6.01
End Levee Mile	6.05
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking downstream at building on landside toe.

richard_s_20100316_068.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing C : Corrected
M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected